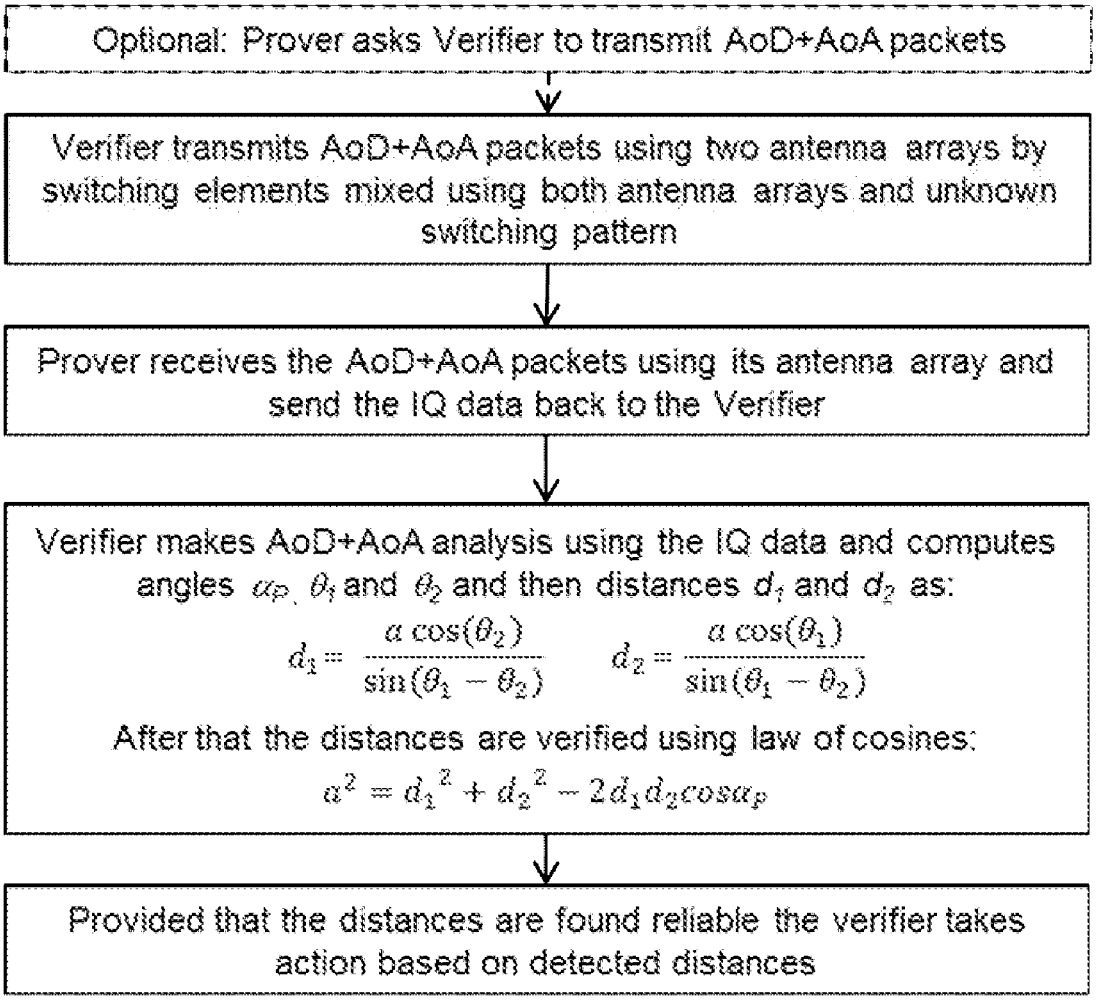
Optional: Prover asks Verifier to transmit AoD+AoA packets
Verifier transmits AoD+AoA packets using two antenna arrays by switching elements mixed using both antenna arrays and unknown switching pattern
Prover receives the AoD+AoA packets using its antenna array and send the IQ data back to the Verifier
Verifier makes AoD+AoA analysis using the IQ data and computes angles $\alpha_p$, $\theta_1$ and $\theta_2$ and then distances $d_1$ and $d_2$ as:
$d_1 = \frac{a\cos(\theta_2)}{\sin(\theta_1 - \theta_2)}$ $d_2 = \frac{a\cos(\theta_1)}{\sin(\theta_1 - \theta_2)}$
After that the distances are verified using law of cosines:
$a^2 = d_1^2 + d_2^2 - 2d_1 d_2 \cos\alpha_p$
Provided that the distances are found reliable the verifier takes action based on detected distances